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Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(Use several sheets if necessary)

Docket Number Optional
03768/09379 (14590)

Application Number
09/855,169

Applicant
Welch et al.

Filing Date
05/14/2001

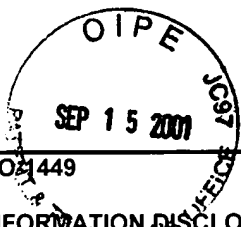
Examiner
unknown

Group Art Unit
1772

U.S. PATENT DOCUMENTS

| EXAMINE R INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| JRH | Des. 284036 | 06/03/86 | Birring | D2 | 10 | |
| | Des. 331627 | 12/08/92 | Igaue et al. | D24 | 426 | |
| | Des. 335707 | 05/18/93 | Igaue et al. | D24 | 426 | |
| | Des. 340283 | 10/12/93 | Igaue et al. | D24 | 426 | |
| | Des. 414262 | 09/21/99 | Ashton et al. | D24 | 426 | |
| | 2206761 | 07/02/40 | Bergstein | 93 | 6 | |
| | 2266761 | 12/23/41 | Jackson, Jr. et al. | 154 | 46 | |
| | 2357392 | 09/05/44 | Francis, Jr. | 18 | 47.5 | |
| | 2464301 | 03/15/49 | Francis, Jr. | 154 | 46 | |
| | 2483405 | 10/04/49 | Francis, Jr. | 154 | 46 | |
| | 2957512 | 10/25/60 | Wade et al. | 154 | 33.05 | |
| | 2957852 | 10/25/60 | Frankenburg et al. | 260 | 75 | |
| | 3186893 | 06/01/65 | Mercer | 161 | 60 | |
| | 3231167 | 01/25/66 | Heuvelmans | 226 | 189 | |
| | 3245624 | 04/12/66 | Meyers et al | 242 | 7 | |
| | 3371668 | 03/05/68 | Johnson | 128 | 290 | |
| | 3391048 | 07/02/68 | Dyer et al | 164 | 58 | |
| | 3439085 | 04/15/69 | Hartmann | 264 | 210 | |
| | 3449187 | 06/10/69 | Bobkowicz | 456 | 181 | |
| | 3468748 | 09/23/69 | Bassett | 161 | 122 | |
| | 3575782 | 04/20/71 | Hansen | 161 | 141 | |
| | 3616129 | 10/26/71 | Sager | 161 | 57 | |
| | 3629047 | 12/21/71 | Davison | 161 | 57 | |
| | 3669823 | 06/13/72 | Wood | 161 | 141 | |
| JRH | 3673026 | 06/27/72 | Brown | 156 | 164 | |

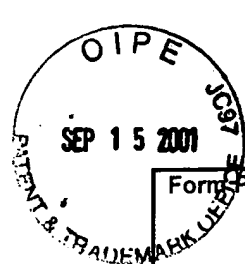
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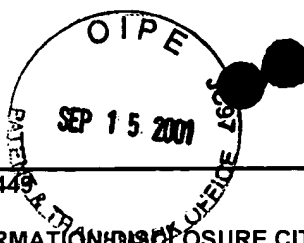
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| <i>JH</i> | 3676242 | 07/11/72 | Prentice | 156 | 62.4 | |
| | 3689342 | 09/05/72 | Vogt et al. | 156 | 167 | |
| | 3752613 | 09/14/73 | Vogt et al. | 425 | 80 | |
| | 3773590 | 11/20/73 | Morgan | 156 | 244 | |
| | 3802817 | 04/09/74 | Matsuki et al. | 425 | 66 | |
| | 3806289 | 04/23/74 | Schwarz | 425 | 72 | |
| | 3836416 | 09/17/74 | Ropiequet | 161 | 2 | |
| | 3849241 | 11/19/74 | Butin et al. | 161 | 169 | |
| | 3855045 | 12/17/74 | Brock | 161 | 146 | |
| | 3890184 | 06/17/75 | Morgan | 156 | 244 | |
| | 3912567 | 10/14/75 | Swartz | 156 | 167 | |
| | 3949130 | 04/06/76 | Sabee et al. | 428 | 192 | |
| | 3978185 | 08/31/76 | Buntin et al. | 264 | 93 | |
| | 4013816 | 03/22/77 | Sabee et al. | 428 | 288 | |
| | 4041203 | 08/09/77 | Brock et al. | 428 | 157 | |
| | 4081301 | 03/28/78 | Buell | 156 | 164 | |
| | 4090385 | 05/23/78 | Packard | 72 | 191 | |
| | 4107364 | 08/15/78 | Sisson | 428 | 196 | |
| | 4209563 | 06/24/80 | Sisson | 428 | 288 | |
| | 4211807 | 07/08/80 | Yazawa et al | 428 | 109 | |
| | 4223063 | 09/16/80 | Sabee | 428 | 224 | |
| | 4239578 | 12/16/80 | Gore | 156 | 361 | |
| | 4259220 | 03/31/81 | Bunnelle et al. | 260 | 27BB | |
| | 4302495 | 11/24/81 | Marra | 428 | 110 | |
| <i>JH</i> | 4303571 | 12/01/81 | Jansen et al. | 260 | 33.6AQ | |



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| JMA | 4304234 | 12/08/81 | Hartmann | 428 | 287 | |
| | 4310594 | 01/12/82 | Yamazaki et al. | 428 | 206 | |
| | 4319572 | 03/16/82 | Widlund et al. | 428 | 284 | |
| | 4323534 | 04/06/82 | DesMarias | 264 | 176R | |
| | 4325372 | 04/20/82 | Teed | 128 | 287 | |
| | 4333782 | 06/08/82 | Pieniak | 156 | 164 | |
| | 4375446 | 03/01/83 | Fujii et al. | 264 | 518 | |
| | 4405397 | 09/20/83 | Teed | 156 | 164 | |
| | 4413623 | 11/08/83 | Pieniak | 604 | 385 | |
| | 4417935 | 11/29/83 | Spencer | 450 | 80 | |
| | 4418123 | 11/29/83 | Bunnelle et al. | 428 | 517 | |
| | 4430086 | 02/07/84 | Repke | 604 | 385 | |
| | 4440819 | 04/03/84 | Rosser et al. | 428 | 107 | |
| | 4450026 | 05/22/84 | Pieniak et al. | 156 | 164 | |
| | 4490427 | 12/25/84 | Grant et al | 428 | 107 | |
| | 4496417 | 01/29/85 | Haake et al. | 156 | 361 | |
| | 4507163 | 03/26/85 | Menard | 156 | 164 | |
| | 4525407 | 06/25/85 | Ness | 428 | 138 | |
| | 4543099 | 09/24/85 | Bunnelle et al. | 604 | 385A | |
| | 4548859 | 10/22/85 | Kline et al. | 428 | 251 | |
| | 4552795 | 11/12/85 | Hansen et al. | 428 | 110 | |
| | 4552802 | 11/12/85 | Mechin | 428 | 255 | |
| | 4555811 | 12/03/85 | Shimalla | 2 | 51 | |
| | 4572752 | 02/25/86 | Jensen et al. | 156 | 64 | |
| JMA | 4586199 | 05/06/86 | Birring | 2 | 401 | |



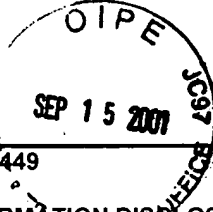
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| JNA | 4606964 | 08/19/86 | Wideman | 428 | 152 | |
| | 4626305 | 12/02/86 | Suzuki et al. | 456 | 104 | |
| | 4636419 | 01/13/87 | Madsen et al | 428 | 131 | |
| | 4640859 | 02/03/87 | Hansen et al | 428 | 105 | |
| | 4646362 | 03/03/87 | Heran et al. | 2 | 400 | |
| | 4652487 | 03/24/87 | Morman | 428 | 138 | |
| | 4656081 | 04/07/87 | Ando et al | 428 | 233 | |
| | 4657793 | 04/14/87 | Fisher | 428 | 36 | |
| | 4657802 | 04/14/87 | Morman | 428 | 152 | |
| | 4663220 | 05/05/87 | Wisneski et al. | 428 | 221 | |
| | 4666542 | 05/19/87 | De Jonckheere | 456 | 164 | |
| | 4675068 | 06/23/87 | Lundmark | 456 | 495 | |
| | 4680213 | 07/14/87 | Fourezon | 428 | 105 | |
| | 4683877 | 08/04/87 | Ersfeld et al. | 128 | 90 | |
| | 4687477 | 08/18/87 | Suzuki et al | 604 | 385A | |
| | 4692368 | 09/08/87 | Taylor et al. | 428 | 137 | |
| | 4692371 | 09/08/87 | Morman et al. | 428 | 224 | |
| | 4718901 | 01/12/88 | Singheimer | 604 | 385A | |
| | 4719261 | 01/12/88 | Bunnelle et al. | 525 | 97 | |
| | 4720415 | 01/19/88 | Vander Wielen et al. | 428 | 152 | |
| 4725468 | 02/16/88 | McIntyre | 428 | 40 | | |
| 4734311 | 03/29/88 | Sokolowski | 428 | 152 | | |
| 4735673 | 04/05/88 | Piron | 456 | 496 | | |
| 4756942 | 07/12/88 | Aichele | 428 | 102 | | |
| JNA | 4761198 | 08/02/88 | Salerno | 156 | 334 | |

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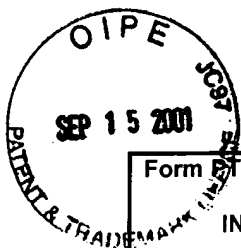
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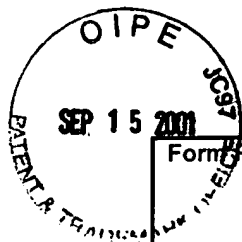
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| JH | 4762582 | 08/09/88 | De Jonckheere | 156 | 164 | |
| | 4775579 | 10/04/88 | Hagy et al. | 428 | 284 | |
| | 4777080 | 10/11/88 | Harris, Jr. et al. | 428 | 212 | |
| | 4789699 | 12/06/88 | Kieffer et al. | 524 | 271 | |
| | 4801345 | 01/31/89 | Dussaud et al. | 156 | 164 | |
| | 4801482 | 01/31/89 | Goggans et al. | 428 | 68 | |
| | 4803117 | 02/07/89 | Daponte | 428 | 228 | |
| | 4804577 | 02/14/89 | Hazelton et al. | 428 | 224 | |
| | 4826415 | 05/02/89 | Mende | 425 | 722 | |
| | 4842666 | 06/27/89 | Werenicz | 156 | 161 | |
| | 4854985 | 08/08/89 | Soderlund et al. | 156 | 85 | |
| | 4854989 | 08/08/89 | Singheimer | 156 | 161 | |
| | 4863779 | 09/05/89 | Daponte | 428 | 152 | |
| | 4874447 | 10/17/89 | Hazelton et al. | 156 | 167 | |
| | 4880420 | 11/14/89 | Pomparelli | 604 | 385.1 | |
| | 4883482 | 11/28/89 | Gandrez et al. | 604 | 385.2 | |
| | 4883549 | 11/28/89 | Frost et al. | 156 | 161 | |
| | 4854989 | 08/08/89 | Singheimer | 156 | 161 | |
| | 4891258 | 01/02/90 | Fahrenkrug | 428 | 138 | |
| | 4892536 | 01/09/90 | De Marais et al. | 604 | 385.2 | |
| | 4892903 | 01/09/90 | Himes | 524 | 488 | |
| | 4900619 | 02/13/90 | Ostrowski et al. | 428 | 284 | |
| | 4906507 | 03/06/90 | Grynaeus et al. | 428 | 113 | |
| | 4908247 | 03/13/90 | Baird et al. | 428 | 34.9 | |
| JH | 4910064 | 03/20/90 | Sabee | 428 | 113 | |



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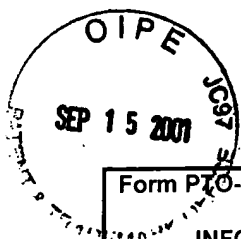
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| <i>JWA</i> | 4917696 | 04/17/90 | De Jonckheere | 604 | 385 | |
| | 4917746 | 04/17/90 | Kons et al. | 156 | 164 | |
| | 4929492 | 05/29/90 | Carey, Jr. et al | 428 | 198 | |
| | 4938821 | 07/03/90 | Soderlund et al. | 156 | 85 | |
| | 4968313 | 11/06/90 | Sabee | 604 | 385.2 | |
| | 4970259 | 11/13/90 | Mitchell et al. | 524 | 505 | |
| | 4977011 | 12/11/90 | Smith | 428 | 152 | |
| | 4984584 | 01/15/91 | Hansen et al | 128 | 898 | |
| | 4995928 | 02/26/91 | Sabee | 456 | 164 | |
| | 4998929 | 03/12/91 | Bjorksund et al. | 604 | 385.2 | |
| | 5000806 | 03/19/91 | Merkatoris et al. | 156 | 161 | |
| | 5002815 | 03/26/91 | Yamanaka et al | 428 | 109 | |
| | 5060349 | 10/29/91 | Walton et al. | 26 | 18.6 | |
| | 5073436 | 12/17/91 | Antonacci et al | 428 | 219 | |
| | 5093422 | 03/03/92 | Himes et al | 525 | 98 | |
| | 5100435 | 03/31/92 | Onwumere | 8 | 115.55 | |
| | 5114087 | 05/19/92 | Fisher et al. | 242 | 42 | |
| | 5143968 | 09/01/92 | Diehl et al. | 424 | 534 | |
| | 5147487 | 09/15/92 | Nomura et al. | 456 | 164 | |
| | 5169706 | 12/08/92 | Collier IV, et al. | 428 | 152 | |
| | 5169712 | 12/08/92 | Tapp | 428 | 315.5 | |
| | 5186779 | 02/16/93 | Tubbs | 156 | 161 | |
| | 5198281 | 03/30/93 | Muzzy et al | 428 | 102 | |
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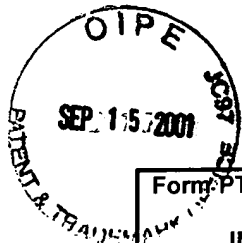
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| | 5226992 | 07/13/93 | Morman | 156 | 62.4 | |
| | 5229191 | 07/20/93 | Austin | 428 | 198 | |
| | 5230701 | 07/27/93 | Meyer et al | 602 | 76 | |
| | 5232777 | 08/03/93 | Sipinen et al | 428 | 364 | |
| | 5236430 | 08/17/93 | Bridges | 604 | 396 | |
| | 5236770 | 08/17/93 | Assent et al | 428 | 198 | |
| | 5238733 | 08/24/93 | Joseph et al | 428 | 284 | |
| | 5246433 | 09/21/93 | Hasse et al. | 604 | 396 | |
| | 5259902 | 11/09/93 | Muckenfuhs | 156 | 164 | |
| | 5260126 | 11/09/93 | Collier, IV et al. | 428 | 288 | |
| | 5266394 | 11/30/93 | Diehl et al | 428 | 261 | |
| | 5288791 | 02/22/94 | Collier, IV et al. | 524 | 505 | |
| | 5296080 | 03/22/94 | Merkatoris et al. | 156 | 496 | |
| | 5304599 | 04/19/94 | Himes | 625 | 98 | |
| | 5308345 | 05/03/94 | Herrin | 604 | 385.2 | |
| | 5312500 | 05/17/94 | Kurihara et al | 156 | 62.4 | |
| | 5324580 | 06/28/94 | Allan et al. | 428 | 152 | |
| | 5332613 | 07/26/94 | Taylor et al. | 428 | 152 | |
| | 5334437 | 08/02/94 | Zafiroglu | 428 | 219 | |
| | 5334446 | 08/02/94 | Quantrille et al | 428 | 284 | |
| | 5336545 | 08/09/94 | Morman | 428 | 152 | |
| | 5342469 | 08/30/94 | Bodford et al | 156 | 244.22 | |
| | 5360854 | 11/01/94 | Bozich, Jr. | 524 | 274 | |
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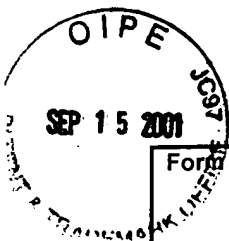
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| | 5389173 | 02/14/95 | Merkatoris et al | 156 | 164 | |
| | 5393599 | 02/28/95 | Quantrille et al | 428 | 284 | |
| | 5405682 | 04/11/95 | Shawyer et al | 428 | 221 | |
| | 5407507 | 04/18/95 | Ball | 156 | 163 | |
| | 5411618 | 05/02/95 | Jocewicz, Jr. | 150 | 164 | |
| | 5413654 | 05/09/95 | Igaue et al | 156 | 161 | |
| | 5413849 | 05/09/95 | Austin et al | 428 | 293 | |
| | 5415649 | 05/16/95 | Watanabe et al | 604 | 385.2 | |
| | 5415925 | 05/16/95 | Austin et al | 428 | 287 | |
| | 5425987 | 06/20/95 | Shawver et al. | 428 | 284 | |
| | 5429694 | 07/04/95 | Hermann | 156 | 1647 | |
| | 5431644 | 07/11/95 | Sipinen et al | 604 | 385.2 | |
| | 5431991 | 07/11/95 | Quantrille et al | 428 | 109 | |
| | 5447462 | 09/05/95 | Smith et al | 450 | 122 | |
| | 5447508 | 09/05/95 | Numano et al | 604 | 385.2 | |
| | 5449353 | 09/12/95 | Watanabe et al. | 604 | 385.2 | |
| | 5464401 | 11/07/95 | Hasse et al | 604 | 385.1 | |
| | 5470639 | 11/28/95 | Gessner et al | 428 | 152 | |
| | 5472775 | 12/05/95 | Obijeski et al | 428 | 220 | |
| | 5476563 | 12/19/95 | Nahata | 156 | 167 | |
| | 5484645 | 01/16/96 | Lickfield et al | 428 | 198 | |
| | 5498468 | 03/12/96 | Blaney | 428 | 198 | |
| JH | 5500075 | 03/19/96 | Herrmann | 156 | 494 | |



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| JAN | 5514470 | 05/07/96 | Haffner et al. | 428 | 246 | |
| | 5523146 | 06/04/96 | Bodford et al | 428 | 198 | |
| | 5531850 | 07/02/96 | Herrmann | 156 | 161 | |
| | 5534330 | 07/09/96 | Groshens | 428 | 198 | |
| | 5540976 | 07/30/96 | Shawver et al | 428 | 198 | |
| | 5545158 | 10/13/96 | Jessup | 604 | 385.2 | |
| | 5545285 | 08/13/96 | Johnson | 156 | 496 | |
| | 5549964 | 08/27/96 | Shohji et al | 428 | 224 | |
| | 5569232 | 10/29/96 | Roe et al | 604 | 385.2 | |
| | 5576090 | 11/19/96 | Suzuki | 428 | 152 | |
| | 5575783 | 11/19/96 | Clear et al. | 604 | 385.1 | |
| | 5582668 | 12/10/96 | Kling | 456 | 161 | |
| | 5591152 | 01/07/97 | Buell et al | 604 | 385.2 | |
| | 5597430 | 01/28/97 | Rasche | 156 | 161 | |
| | 5626573 | 05/06/97 | Igaue et al | 604 | 385.1 | |
| | 5628856 | 05/13/97 | Dobrin et al | 156 | 244.18 | |
| | 5645672 | 07/08/97 | Dobrin | 156 | 244.18 | |
| | 5652041 | 07/29/97 | Buerger et al | 428 | 198 | |
| | 5660664 | 08/26/97 | Herrmann | 156 | 161 | |
| | 5669897 | 09/23/97 | Lavon et al | 604 | 385.2 | |
| 5681302 | 10/28/97 | Melbye et al | 604 | 373 | | |
| 5683787 | 11/04/97 | Boich et al | 428 | 198 | | |
| 5690626 | 11/25/97 | Suzuki et al | 604 | 385.2 | | |
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| JAN | 5695849 | 12/09/97 | Shawver et al | 428 | 131 | |



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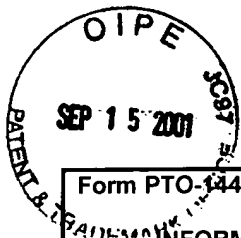
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| | 5733822 | 03/31/98 | Gessner et al | 442 | 35 | |
| | 5735839 | 04/07/98 | Kawaguchi et al | 604 | 385.2 | |
| | 5736219 | 04/07/98 | Suehr et al | 428 | 113 | |
| | 5746731 | 05/05/98 | Hisada | 604 | 385.2 | |
| | 5749865 | 05/12/98 | Yamamoto et al | 604 | 385.2 | |
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| | 5788804 | 08/04/98 | Horsting | 156 | 440 | |
| | 5789065 | 08/04/98 | Haffner et al | 428 | 152 | |
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| | 5814176 | 09/29/98 | Proulx | 156 | 167 | |
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| Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i> | Docket Number Optional 03768/09379 (14590) | Application Number 09/855,169 |
| | Applicant Welch et al. | Filing Date 05/14/2001 |
| | Examiner unknown | Group Art Unit 1772 |

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Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**
(Use several sheets if necessary)

Docket Number Optional
03768/09379 (14590)

Application Number
09/855,169

Applicant
Welch et al.

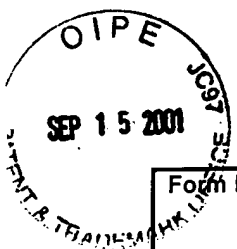
Filing Date
05/14/2001

Examiner
unknown

Group Art Unit
1772

FOREIGN PATENT DOCUMENTS

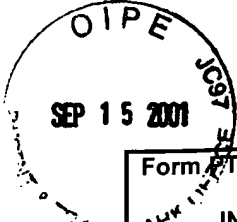
| | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | Translation | |
|-----------|-----------------|----------|-------------------|----------------------|----------------------|-------------|----|
| | | | | | | YES | NO |
| <i>JH</i> | CA 2157757 A1 | 09.02.95 | Gessner et al. | <i>[handwritten]</i> | <i>[handwritten]</i> | | |
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| Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i> | Docket Number Optional 03768/09379 (14590) | Application Number 09/855,169 |
| | Applicant Welch et al. | Filing Date 05/14/2001 |
| | Examiner unknown | Group Art Unit 1772 |

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|-------------|-----------------|----------|-------------------|-------|----------|-------------|----|
| | | | | | | YES | NO |
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| | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | Translation | |
|------------|-----------------|----------|----------------|-------------------|-------------------|-------------|----|
| | | | | | | YES | NO |
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|---|---|
| EXAMINER <i>JWA</i> | DATE CONSIDERED <i>11/6/02</i> |
| <i>JWA</i> | Publication: "Superfine Thermoplastic Fibers" by Van A. Wente, Naval Research Laboratory, Washington, D.C.; pgs. 1342 – 1346 in Industrial and Engineering Chemistry |
| <i>JWA</i> | Publication: "Manufacture of Superfine Organic Fibers" by V.A. Wente, E.L. Boone, and C.D. Fluharty in Chemistry Division, Naval Research Laboratory, Washington, D.C.; May 25, 1954; pgs. 1-15 |
| | <i>JWA</i> <i>11/6/02</i> |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. | |